

TypeScript Meetup 9/14

2:00	Around the room introductions
2:15	Opening comments – Anders Hejlsberg
2:30	TypeScript update – Jonathan Turner
2:50	TypeScript Q&A session – Jonathan, Anders, Steve Lucco, and Team
3:15	Break: Eat, drink, and Socialize
3:45	“TypeScript – the man behind the curtain of the Monaco JavaScript tools” – Erich Gamma, Johannes Rieken
4:00	Source mapping local variables for F12 Debugging – Priyank Desai
4:15	Skype UI Framework – Alexander Ryzhov
4:30	jLib Framework – Jason He

Contact: [stevenic](#)

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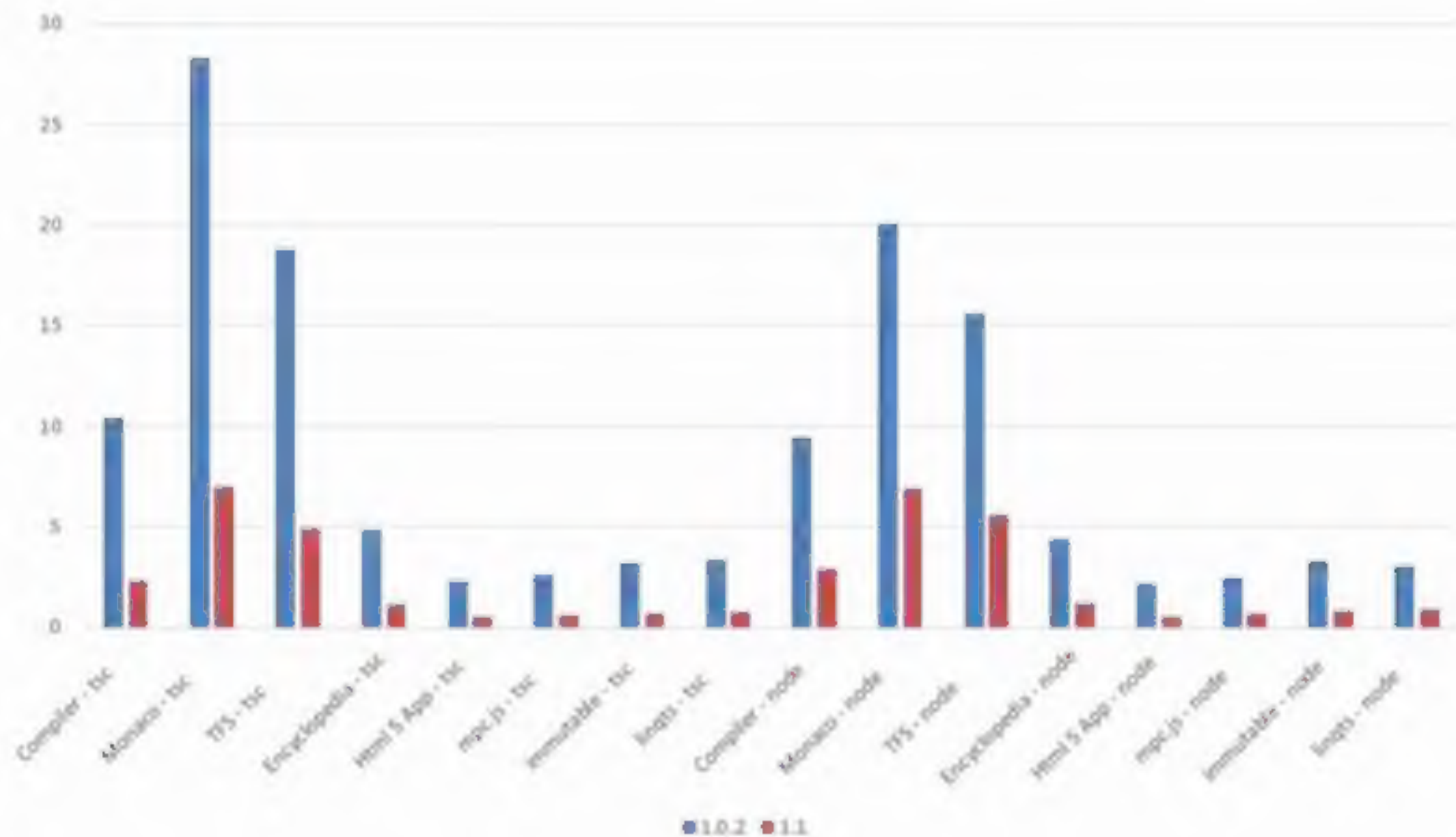
Thank You!



TypeScript Adoption



TypeScript 1.1: 5x Faster Compiler



New Compiler Design Principles

- Keep it as small and simple as possible
- Functions and plain-old-data interfaces
- No classes, no nulls, no == and !=
- Privacy through nested functions and closures
- All collections are arrays or object-as-maps
- Objects with multiple meanings (is-a vs. has-a)
- Lazily created immutable data structures
- Re-use (e.g. incremental binding)

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GitHub, Inc. [US]

https://github.com/Microsoft/TypeScript

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ahajlsberg + - 🔔 ⚙️ 📄

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TypeScript is a superset of JavaScript that compiles to clean JavaScript output. <http://www.typescriptlang.org> — Edit

📄 628 commits

🌿 22 branches

📦 0 releases

👤 18 contributors

🌿

branch master

TypeScript / +

☰

Merge pull request #640 from Microsoft/contextualSignatureInstantiation

ahajlsberg authored 16 hours ago latest commit: a7084255a

bin	Update LKG	22 hours ago
doc	Updating Language Specification	2 days ago
scripts	remove unused file	22 hours ago
src	Merge pull request #640 from Microsoft/contextualSignatureInstantiation	16 hours ago
tests	Merge pull request #640 from Microsoft/contextualSignatureInstantiation	16 hours ago
typings	Update typings	6 days ago
typings	Update typings	2 months ago
travis.yml	File taken over move	2 months ago

Code

Issues 179

Pull Requests 2

Wiki

Pulse

Graphs

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HTTPS clone URL

<https://github.com/Microsoft/TypeScript>

You can clone with HTTPS, SSH, or Subversion

Clone in Desktop

Upcoming releases

- TypeScript 1.1 – **9/29/2014**
 - New compiler
 - Old language service
 - Available for Dev14 and Dev12
 - We'll also release for NPM and source
- TypeScript 1.3 – **11/12/2014**
 - New compiler + Roslyn language service
 - Available for Dev14
 - We'll also continue to update Dev12, NPM, and source

Upcoming Proposed Features (1/2)

- **Class expressions** – Add class expressions, so that we support both class declarations and class expressions, aligning with ES6.
- **Protected** access modifier (note: yes, someone said that 'protected' shouldn't be prioritized)
- **For...of** – the additional iteration mechanism in ES6
- **Destructuring/Tuples** – working with the destructuring mechanism from ES6
- **Annotations** – a way of annotating metadata onto declarations
- **Spread** – ES6 spread operator
- **Template strings** – ES6 template strings
- **Abstract** access modifier
- **Better .d.ts generation/semantics** – Improve how .d.ts generation happens, removing some of the common cases of errors around types not being visible

Upcoming Proposed Features (2/2)

- **Override keyword**
- **Union types**
- **Conditional functions** – lightweight conditional compilation. For example, debug assert that disappears when you do a release.
- **Anonymous modules**
- **Make TypeScript part of ECMAScript**
- **Partial classes**
- **Control over co- and contra-variance**
- **Better way of splitting large projects into components**
- **Incremental build**
- **Easier extension of builtin types** (more easily define functions on String, Number, etc)
- **First-class WWA support**
- **Local types** – This removes some of the restrictions around where types can be declared

